

COURSE INFORMATION					
Course Title	Code	Semester	L+P Hour	Credits	ECTS
PhD Thesis	PHYS 700	5 - 8			30

<b>Prerequisites</b>	-
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<b>Language of Instruction</b>	English
<b>Course Level</b>	PhD
<b>Course Type</b>	Compulsory
<b>Course Coordinator</b>	
<b>Instructors</b>	
<b>Assistants</b>	
<b>Goals</b>	The aim of this course is to work/study on a project about the fields of physics that the student has learned during the education.
<b>Content</b>	Finalizing the the project, report writing and presentation

Learning Outcomes	Teaching Methods	Assessment Methods
Has the ability to work on a project in physics in experimental or theoretical way.	1, 2, 3, 11, 16	D, E, G, H

<b>Teaching Methods:</b>	1: Lecture, 2: Question-Answer, 3: Discussion, 11: Seminar, 16: Oral Exam
<b>Assessment Methods:</b>	D: Proje, E: Report, G:Presentation, H:Application

RECOMMENDED SOURCES	
<b>Textbook</b>	depends on the project
<b>Additional Resources</b>	

MATERIAL SHARING	
<b>Documents</b>	
<b>Assignments</b>	

<b>Exams</b>	
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<b>ASSESSMENT</b>		
<b>IN-TERM STUDIES</b>	<b>NUMBER</b>	<b>PERCENTAGE</b>
Report	1	85
Presentation	2	15
<b>Total</b>		<b>100</b>
<b>CONTRIBUTION OF FINAL EXAMINATION TO OVERALL GRADE</b>		15
<b>CONTRIBUTION OF IN-TERM STUDIES TO OVERALL GRADE</b>		85
<b>Total</b>		<b>100</b>

<b>COURSE CATEGORY</b>	Expertise/Field Courses
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<b>COURSE'S CONTRIBUTION TO PROGRAM</b>						
No	Program Learning Outcomes	Contribution				
		1	2	3	4	5
1	Gets a sound base for the main fields of physics such as Classical Mechanics, Quantum Mechanics and Electromagnetism,					X
2	Gets the ability of interpreting, analysing, forming a synthesis and relationships between the main fields of physics and/or other sciences,					X
3	Obtains the education required for the measurements in scientific and technological areas and the contribution of physics in the industrial applications and on the macroscopic scale such as the society,					X
4	Follows the up-to-date scientific developments, makes the analysis/synthesis for the new ideas and evaluates them,					X
5	Uses the academic sources, the computer technology and the related devices,					X
6	Joins the working and research groups, also the scientific meetings, communicates well at the national and international level,					X
7	Gets the ability of creative and critical thinking, problem solving, researching, producing a new and original work, improving himself/herself in his/her own fields of interest,					X
8	Gains the concepts of ethics and responsibility. Undertakes the responsibility for the solutions to the problems related with his/her field as required for having an intellectual identity.					X

<b>ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION</b>
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Activities	Quantity	Duration (Hour)	Total Workload (Hour)
Course Duration (Excluding the exam week: 14x Total course hours)	14	3	42
Hours for off-the-classroom study (Pre-study, practice)	14	50	700
Report	1	3	3
Presentation	1	3	3
<b>Total Work Load</b>			748
<b>Total Work Load / 25 (h)</b>			29.92
<b>ECTS Credit of the Course</b>			30

COURSE INFORMATION					
Course Title	Code	Semester	L+P Hour	Credits	ECTS
Seminar	PHYS 680	5			2

<b>Prerequisites</b>	-
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<b>Language of Instruction</b>	English
<b>Course Level</b>	PhD
<b>Course Type</b>	Compulsory
<b>Course Coordinator</b>	
<b>Instructors</b>	
<b>Assistants</b>	
<b>Goals</b>	The aim of this course is to work/study on a project about the fields of physics that the student has learned during the education.
<b>Content</b>	Report writing and presentation

Learning Outcomes	Teaching Methods	Assessment Methods
Has the ability to work on a topic in physics in experimental or theoretical way.	1, 2, 3, 11, 16	D, E, G, H

<b>Teaching Methods:</b>	1: Lecture, 2: Question-Answer, 3: Discussion, 11: Seminar, 16: Oral Exam
<b>Assessment Methods:</b>	D: Project, E: Report, G:Presentation, H:Application

RECOMMENDED SOURCES	
<b>Textbook</b>	depends on the title of the subject
<b>Additional Resources</b>	

MATERIAL SHARING	
<b>Documents</b>	
<b>Assignments</b>	
<b>Exams</b>	

<b>ASSESSMENT</b>		
<b>IN-TERM STUDIES</b>	<b>NUMBER</b>	<b>PERCENTAGE</b>
Report	1	55
Presentation	2	45
<b>Total</b>		<b>100</b>
<b>CONTRIBUTION OF FINAL EXAMINATION TO OVERALL GRADE</b>		45
<b>CONTRIBUTION OF IN-TERM STUDIES TO OVERALL GRADE</b>		55
<b>Total</b>		<b>100</b>

<b>COURSE CATEGORY</b>	Expertise/Field Courses
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<b>COURSE'S CONTRIBUTION TO PROGRAM</b>						
No	Program Learning Outcomes	Contribution				
		1	2	3	4	5
1	Gets a sound base for the main fields of physics such as Classical Mechanics, Quantum Mechanics and Electromagnetism,					X
2	Gets the ability of interpreting, analysing, forming a synthesis and relationships between the main fields of physics and/or other sciences,					X
3	Obtains the education required for the measurements in scientific and technological areas and the contribution of physics in the industrial applications and on the macroscopic scale such as the society,					X
4	Follows the up-to-date scientific developments, makes the analysis/synthesis for the new ideas and evaluates them,					X
5	Uses the academic sources, the computer technology and the related devices,					X
6	Joins the working and research groups, also the scientific meetings, communicates well at the national and international level,					X
7	Gets the ability of creative and critical thinking, problem solving, researching, producing a new and original work, improving himself/herself in his/her own fields of interest,					X
8	Gains the concepts of ethics and responsibility. Undertakes the responsibility for the solutions to the problems related with his/her field as required for having an intellectual identity.					X

<b>ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION</b>			
Activities	Quantity	Duration (Hour)	Total Workload (Hour)

Course Duration (Excluding the exam week: 14x Total course hours)	14	2	28
Hours for off-the-classroom study (Pre-study, practice)	14	2	28
Report	1	3	3
Presentation	1	1	1
<b>Total Work Load</b>			60
<b>Total Work Load / 25 (h)</b>			2.4
<b>ECTS Credit of the Course</b>			2

Courses and Program Learning Outcomes								
Physics Unified PhD Program								
Courses	L01	L02	L03	L04	L05	L06	L07	L08
ELECTROMAGNETISM I	5	5	4	4	2	2	5	2
STATISTICAL PHYSICS & THERMODYNAMICS	5	5	4	4	2	2	5	2
MATHEMATICAL METHODS AND CLASSICAL MECHANICS	5	5	4	4	2	2	5	2
QUANTUM MECHANICS I	5	5	4	4	2	2	5	2
ADVANCED METROLOGY	5	5	4	4	2	2	5	2
NANOTECHNOLOGY AND MATERIALS	5	5	4	4	2	2	5	2
ELECTROMAGNETISM & PLASMA PHYSICS	5	5	4	4	2	2	5	2
ADVANCED QUANTUM MECHANICS	5	5	4	4	2	2	5	2
MODERN THEORETICAL PHYSICS	5	5	4	4	2	2	5	2
PHOTONICS	5	5	4	4	2	2	5	2
CRITICAL THINKING AND SCIENTIFIC METHOD	2	2	4	5	5	2	5	5
SEMINAR	5	5	5	5	5	5	5	5
THESIS	5	5	5	5	5	5	5	5

### **Level of Qualification:**

- Total; Having achieved 7 courses, seminars and thesis, provided that 21 credits are not less than 240 ECTS.
- Grade point average is at least 3.00 out of 4
- A minimum grade of CB from credit courses
- In addition to the minimum conditions determined by the postgraduate regulation; ensuring the acceptance of one journal article produced from the thesis study of the student in one of the SCI, SCIE, DAAI, SSCI, AHCI indexes or at least in the Q2 class (at least Q3 for the Mathematics doctoral program)

### Postgraduate Doctorate

- Total; 42 credits, 14 lessons, seminars and thesis studies provided that it is not less than 300 ECTS.
- The grade point average must be at least 3.00 out of 4,
- A minimum grade of CB from credit courses
- In addition to the minimum conditions determined by the postgraduate regulation; ensuring the acceptance of one journal article produced from the thesis study of the student in one of the SCI, SCIE, DAAI, SSCI, AHCI indexes or at least in the Q2 class (at least Q3 for the Mathematics doctoral program)

### **Admission to Integrated Doctorate Program (Ph.D. on B.S. degree):**

Having a master's degree,

- A minimum score of 55 from international foreign language exams accepted as equivalent to foreign language exams, or an equivalent score from international foreign language exams accepted as equivalent by ÖSYM,
- Taking at least 55 (numerical) from ALES exam,

Post-graduate Doctorate

- Having a master's degree,
- A minimum score of 55 from international foreign language exams accepted as equivalent to foreign language exams, or an equivalent score from international foreign language exams accepted as equivalent by ÖSYM,
- Taking at least 80 (numerical) from ALES exam,

Having a minimum 3.00 graduation average of 4.00



## ASSESSMENT AND GRADING

Percent Age	Course Grade	Grade Points
90-100	AA	4.00
85-89	BA	3.50
80-84	BB	3.00
75-79	CB	2.50
74 and below	FF	
	FA	Fail from attendance

### Other Grades:

**I: Incomplete** is given to a student who provides supporting evidence through genuine and valid documentation of illness or other reason which has prevented her/him from completing the necessary course work. In such a case, within 15 days from the day of submitting the grades to the Registrar's Office, the student required complete the missing work and obtain a grade. Otherwise, the I grade will automatically become an F

**P: Pass** is given to students who are successful in taking non-credit courses.

**X: In Progress** is used when the work of a student in a course extends past the time for reporting grades.

**T: Transfer** is given to courses accepted as equivalents in transfers from other universities.

**W: Withdrawal** is given if a student withdraws from a course after the add/drop period within the first 10 weeks after the semester starts, with the recommendation of her/his advisor and the permission of the instructor concerned.

### Overall Classification of the Qualification

Honors	3.00-3.49	1
High Honors	3.50-4.00	1

## CONTACTS

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